

NOVOZYMES A/S V. GENENCOR INTERNATIONAL INC.
CASE NO: CA NO. 05-160-KAJ

EXHIBITS OFFERED WITH OBJECTIONS

Exhibit	Description	Offered By	Source	Production No.	Objection
TE100	Certified Copy of U.S. Patent No. 6,867,031	Novozymes and Genencor/EDC			Stipulated
TE101	Certified Copy of the File History of U.S. Patent No. 6,867,031	Novozymes and Genencor/EDC			Stipulated
TE102	"Structural Analysis of a Chimeric Bacterial α -Amylase. High-Resolution Analysis of Native and Ligand Complexes," Brzozowski, Andrej, David M. Lawson Biochemistry 2000, pp. 9009-9107	Novozymes	Gideon Davies Deposition Exhibit No. 100		Stipulated
TE103	Website pages entitled "An Information Portal to Biological Macromolecular Structures" www.rcsb.org	Novozymes	Gideon Davies Deposition Exhibit No. 101		Stipulated
TE104	Superposition of BLA domain B in the absence and presence of calcium, viewed from two separate vantage points	Novozymes	Gideon Davies Deposition Exhibit No. 105		Stipulate to use as a demonstrative. Reserve right to object under FRE 401-403 (Relevance) if offered as evidence.
TE105	Curriculum Vitae of Gideon J. Davies	Novozymes	Gideon Davies Deposition Exhibit No. 106		Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE106	R.JM Russell, <i>et al.</i> , <i>The Crystal Structure of Citrate Synthase from Thermophilic Archaeon, Thermoplasma acidophilum</i> , STRUCTURE, Vol. 2, No. 12, pp. 1157 - 1167 (1994).	Novozymes and Genencor/EDC	Gideon Davies Deposition Exh. 108; Exh. 2 to Second Arnold Declaration; Exh. Q to the Machius Expert Report; Exh. 7 to the Davies Rebuttal		Stipulated
TE107	EBS2 α -amylase Analytical Report	Novozymes	Frances Hamilton Arnold Deposition Exhibit No. 83	GCOR072633 - GCOR072642	Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE108	D. J. Lipman and W. Pearson, <i>Rapid and Sensitive Protein Similarity Searches</i> , SCIENCE 227, pp. 1435 - 1441 (1985).	Novozymes and Genencor/EDC	John Rickert Devereux Deposition Exh. No. 21; Devereux Deposition Exh. 21; Exh. 28 to the Second Alber Report; Exh. 2 to the Alber Declaration (APP. 162-170)		Stipulated
TE109	S. Needleman, C. Wunsch, <i>A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins</i> , JOURNAL OF MOLECULAR BIOLOGY, Vol. 48, No. 3, pp. 443 - 446 (1970).	Novozymes and Genencor/EDC	John Rickert Devereux Deposition Exh. No. 22		Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE110	Email string dated 01/14/04 between Henrik-Bisgard-Frantzen and Jason Garbell regarding UltraphLo revisited	Novozymes	Jason Garbell Deposition Exhibit No. 65	NV-0200004 - NV-0200007	Stipulated subject to additional objections arising out of discovery on the "Waived Subjects"
TE111	Email string dated 02/25/04 between Torben Vedel Borchert and Jason Garbell regarding 4318 Divisionals	Novozymes	Jason Garbell Deposition Exhibit No. 66	NV-0200002 - NV-0200003	Stipulated subject to additional objections arising out of discovery on the "Waived Subjects"
TE112	Email string dated 06/08/04 between Carsten Andersen and Jason Garbell	Novozymes	Jason Garbell Deposition Exhibit No. 67	NV-0200001	Stipulated subject to additional objections arising out of discovery on the "Waived Subjects"
TE113	~8871068.txt re: FASTA 1.6c31 December 1993.	Novozymes and Genencor/EDC	Pearson Deposition Exh. 71		Stipulated
TE114	Data that formed basis for the experiments described in Declaration of Torben V. Borchert under 37 C.F.R. 1.132 dated 09/06/04 Application No. 10/025,648	Novozymes and Genencor/EDC	Borchert Deposition Exh. 50; Exh. 7 to the Arnold Rebuttal Report; Exh. L to the Klibanov Report	NV-0174630 - NV-0174688	Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE115	Y. Suzuki, <i>et al.</i> , <i>Amino Acid Residues Stabilizing a Bacillus Alpha-Amylase Against Irreversible Thermoinactivation</i> , JOURNAL OF BIOLOGICAL CHEMISTRY, pp. 18933 - 18938 (1995).	Novozymes and Genencor/EDC	Borchert Deposition Exh. 52; Exh. H to Defendant's Opposition (APP. 980-985); Exh. 4 to the Second Arnold Declaration (APP. 843 - 848); Exh. 2 to Borchert Declaration; Exh. 4 to the Arnold Rebuttal Report; Exh. 8 to the Davies Rebuttal; Exh. S to the Machius Report; Exh. H to the Klibanov Report		Stipulated
TE116	S. J. Tomazic <i>et al.</i> , <i>Mechanisms of Irreversible Thermal Inactivation of Bacillus alpha-amylases</i> JOURNAL OF BIOLOGICAL CHEMISTRY, Vol. 263, No. 7, pp. 3086 - 3091 (1988).	Novozymes and Genencor/EDC	Exhibit 219 to the Deposition of Alexander Klibanov; Exh. 9 to the Davies Report; Exh. AC to the Alber Report; Exh. T to the Machius Report; Exh. F to the Klibanov Report		Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE117	S. J. Tomazic, A. M. Klivanov, <i>Why is One Bacillus alpha-Amylase More Resistant against Irreversible Thermoinactivation Than Another?</i> , JOURNAL OF BIOLOGICAL CHEMISTRY, Vol. 263, No. 7, pp. 3092-3096 (1988).	Novozymes and Genencor/EDC	Exh. 220 to the Deposition of Alexander Klivanov; Exh. AD to the Alber Report; Exh. G to the Klivanov Report; Exh. 10 to the Davies Rebuttal; Exh. U to the Machius Expert Report		Stipulated
TE118	X-ray structure coordinates of the B. lichenformis alpha-amylase described in Machius '95, as downloaded from the Protein DataBank < http://www.pdb.org >, Accession No. 1BPL	Novozymes	Exhibit 12 to Davies Rebuttal Expert Report		Objection: FRE 401-403 (Relevance)
TE119	X-ray structure coordinates of the B. lichenformis alpha-amylase described in Machius '98, as downloaded from the Protein Data Bank < http://www.pdb.org >, Accession No. 1BLI	Novozymes	Exhibit 13 to Davies Rebuttal Expert Report		Objection: FRE 401-403 (Relevance)
TE120	Frances Hamilton Arnold Curriculum Vitae	Novozymes	Exhibit 1 to Frances Hamilton Arnold Expert Report		Stipulated
TE121	11/27/01 Document entitled "Production Culture History"	Novozymes	Exhibit 2 to Frances Hamilton Arnold Expert Report	GCOR003611	Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE122	G-Zyme© G997 Alpha Amylase	Novozymes	Exhibit 4 to Frances Hamilton Arnold Expert Report	GCOR08935 - GCOR08936	Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE123	Sequence of G997	Novozymes	Exhibit 6 to Frances Hamilton Arnold Expert Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE124	Gap Alignment: G997 to Seq. ID No. 3	Novozymes	Exhibit 7 to Frances Hamilton Arnold Expert Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE125	Spezyme Ethyl® Amino Acid Sequence	Novozymes	Exhibit 9 to Frances Hamilton Arnold Expert Report		Stipulated
TE126	GAP Alignment: G997 to Spezyme Ethyl	Novozymes	Exhibit 10 to Frances Hamilton Arnold Expert Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE127	GAP Alignment: Seq. ID No: 3 to Spezyme Ethyl (Old Matrix)	Novozymes	Exhibit 11 to Frances Hamilton Arnold Expert Report		Stipulated
TE128	GAP Alignment: Sequence 3 (Figure 1) to Spezyme Ethyl (Old Matrix)	Novozymes	Exhibit 12 to Frances Hamilton Arnold Expert Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE129	Alpha Amylase Alignments	Novozymes	Exhibit 13 to Frances Hamilton Arnold Expert Report		Stipulated
TE130	Linear regression plots prepared by me for the experimental data set in the Borchert Declaration	Novozymes	Exhibit 9 to Frances Hamilton Arnold Rebuttal Expert Report		Stipulated
TE131	Curriculum Vitae of John Devereux	Novozymes	Exhibit 1 to John Devereux Expert Report		Stipulated
TE132	GAP Alignment: Seq ID No:3 to Spezyme Ethyl (New Matrix)	Novozymes	Exhibit 4 to John Devereux Expert Report		Stipulated
TE133	GAP Alignment: G997 to SEQ ID No:3	Novozymes	Exhibit 8 to John Devereux Expert Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE134	SPEZYME® ETHYL: High Performance Alpha-Amylase for Fuel Ethanol Processes	Novozymes	Exhibit 2 to Frances Hamilton Arnold Declaration in Support of Plaintiff's Motion for Preliminary Injunction		Stipulated
TE135	ATCC 31,195 Alpha-Amylase Amino Acid Sequence	Novozymes	Exhibit 4 to Frances Hamilton Arnold Declaration in Support of Plaintiff's Motion for Preliminary Injunction		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE136	GAP ALIGNMENT: ATCC 31,195 Alpha-Amylase to Spezyme Ethyl (Old Matrix)	Novozymes	Exhibit 5 to Frances Hamilton Arnold Declaration in Support of Plaintiff's Motion for Preliminary Injunction		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE137	GAP ALIGNMENT: ATCC 31,195 Alpha-Amylase to Spezyme Ethyl (New Matrix)	Novozymes	Exhibit 6 to Frances Hamilton Arnold Declaration in Support of Plaintiff's Motion for Preliminary Injunction		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE138	Webster's Ninth New Collegiate Dictionary pp. 855, 1304 (1991).	Novozymes and Genencor/EDC	Exhibit E to Appendix to Memorandum of Law in Support of Plaintiff's Motion for a Preliminary Injunction		Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE139	Spezyme Ethyl DNA Sequence	Novozymes	Exhibit 2 to Christian Isak Jørgensen Declaration in Support of Plaintiff's Motion for Preliminary Injunction and Exhibit 9 to Second Expert Report of Thomas C. Alber)		Stipulated
TE140	GenBank Accession No. AF032864	Novozymes	Exhibit 4 to Christian Isak Jørgensen Declaration in Support of Plaintiff's Motion for Preliminary Injunction		Stipulated
TE141	GenBank Accession No. AAB86961	Novozymes	Exhibit 5 to Christian Isak Jørgensen Declaration in Support of Plaintiff's Motion for Preliminary Injunction		Stipulated
TE142	P. Jorgensen <i>et al.</i> , <i>Cloning of a chromosomal alpha-amylase gene from Bacillus stearothermophilus</i> , FEMS MICROBIOLOGY LETTERS, Vol. 77, pp. 271-276 (1991).	Novozymes and Genencor/EDC	Exh. 3 to the S. Jorgensen Declaration i/s/o Plaintiff's Motion for Preliminary Injunction; Exh. 18 to the Second Alber Report		Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE143	Internal Genencor Correspondence (“Notice Documents”)	Novozymes	Exhibit J to Novozymes Reply Brief in Support of Motion for a Preliminary Injunction	GCOR120413, GCOR120472, GCOR119962, GCOR119439 - 119440	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay)
TE144	Genencor Patent Application No 11/102,188 “Mutant α -Amylase”	Novozymes	Exhibit R to Novozymes Reply Brief in Support of Motion for a Preliminary Injunction	GCOR005142 - GCOR005196	Stipulated
TE145	<i>Thermozymes: Identifying microbial diversity in the natural environment: a molecular phylogenetic approach</i> , Philip Hugenholtz and Norman R. Pace, Tibtech, (1996)	Novozymes	Exhibit 1 to Second Declaration of Frances Hamilton Arnold in support of Novozymes Reply Brief in Support of Motion for a Preliminary Injunction		Stipulate to use as a demonstrative. Reserve right to object under FRE 401-403 (Relevance) if offered as evidence.
TE146	The amino acid sequence of SPEZYME® Ethyl	Novozymes	Exhibit 11 to the Second Declaration of Frances Hamilton Arnold in support of Novozymes Reply Brief in Support of Motion for a Preliminary Injunction		Stipulate to use as a demonstrative. Reserve right to object under FRE 401-403 (Relevance) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE147	The amino acid sequence of the ATCC 39,709 (G997) enzyme	Novozymes	Exhibit 11 to Second Declaration of Frances Hamilton Arnold in support of Novozymes Reply Brief in Support of Motion for a Preliminary Injunction		Stipulate to use as a demonstrative. Reserve right to object under FRE 401-403 (Relevance) if offered as evidence.
TE148	The alignment of the amino acid of the amino acid sequence of EBS2 (Spezyme Ethyl) and its parents (G997) (Exhibit 12 to the Second Declaration of Frances Hamilton Arnold in support of Novozymes' Reply Brief in Support of Motion for a Preliminary Injunction)	Novozymes	Exh. 12 to the Second Declaration of Frances Hamilton Arnold i/s/o Novozymes Reply Brief i/s/o Motion for Preliminary Injunction		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE149	U.S. Patent Application No. 09/327,563 "Amylase Mutants"	Novozymes	Exhibit 5 to Torben V. Borchert Declaration		Stipulated
TE150	Citation Search Reports	Novozymes	Exhibit FF to Novozymes Reply Brief in Support of Motion for a Preliminary Injunction		Objection: FRE 401-403 (Relevance)

Exhibit	Description	Offered By	Source	Production No.	Objection
TE151	Spezyme Ethyl Amylase Presentation	Novozymes	Exhibit 6 to Declaration of David J. Teece in support of Genencor's and EDC's Appendix in Opposition to Novozymes' Motion for Preliminary Injunction	GCOR011312 - GCOR011401	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay)
TE152	Novozymes Presentation titled, "Winning against Spezyme Ethyl Strategy"	Novozymes and Genencor/EDC	Exh. 23 to Teece Declaration i/s/o Genencor and EDC's Appendix in Opposition to Novozymes' Motion for Preliminary (APP. 2246 - 2252)	NV-0004747 - NV-0004753	Stipulated
TE153	12/16/03 & 12/17/03 Emails between Eugenio Ferrari, Beth Concoby and Cees Broekhuizen regarding tier 1 documents	Novozymes	W. Douglas Crabb Deposition Exhibit No. 3	GCOR079654 - GCOR079655	Objection: FRE 801-802 (Hearsay)
TE154	Eugenio Ferrari file titled "ETHYL"	Novozymes	W. Douglas Crabb Deposition Exhibit No. 4	GCOR003607 - GCOR003615	Objection: FRE 801-802 (Hearsay)
TE155	12/16/03, 12/17/03 & 12/20/03 Emails between Doug Crabb, Eugenio Ferrari, Beth Concoby and Cees Broekhuizen regarding tier 1 documents	Novozymes	W. Douglas Crabb Deposition Exhibit No. 5	GCOR079821 - GCOR079823	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay)

Exhibit	Description	Offered By	Source	Production No.	Objection
TE156	Document titled "EBS-2 product development input - Grain Processing BIT discussion - August 13, 2003	Novozymes	W. Douglas Crabb Deposition Exhibit No. 6)	GCOR002598 - GCOR002609	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay)
TE157	10/29/02 & 10/30/02 Emails between Kevin Griffith, Doug Crabb, Jodi Henderson and John Gell regarding Non IP Issue Ultra-pHLo	Novozymes	W. Douglas Crabb Deposition Exhibit No. 8	GCOR136592 - GCOR136593	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay)
TE158	04/05/05 Judy Chang Report titled "Analytical Characterization of EBS2	Novozymes	W. Douglas Crabb Deposition Exhibit No. 9	GCOR003358 - GCOR003376	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay)
TE159	04/16/03 Email from Doug Crabb to Tom Anderton and Eugenio Ferrari regarding Alignment for EBS2	Novozymes	W. Douglas Crabb Deposition Exhibit No. 10	GCOR079790	Objection: FRE 801-802 (Hearsay)
TE160	06/27/05 Document titled "Sequences and Sources for EBS wt B.stearthermophilus genes and engineered variants"	Novozymes	W. Douglas Crabb Deposition Exhibit No. 11	GCOR032513	Objection: FRE 801-802 (Hearsay)
TE161	04/19/04 Judy Chang Report titled "EBS2 ?amylase Analytical Report - Analytical Characterization of EBS2 molecule"	Novozymes	W. Douglas Crabb Deposition Exhibit No. 12; Thomas C. Alber Deposition Exhibit No. 203; Frances Hamilton Arnold Deposition Exhibit No. 83	GCOR072633 - GCOR072642	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay)
TE162	Genencor presentation titled "pH 4 ? Amylase - Goal: A single pH liquefaction and saccharification process for hydrolyzing starch"	Novozymes	W. Douglas Crabb Deposition Exhibit No. 13	GCOR037149 - GCOR037161	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay)

Exhibit	Description	Offered By	Source	Production No.	Objection
TE163	08/18/03 Michelle J. Vernier Presentation titled "EBS2/Fred Upgrade, Alpha Amylase Update"	Novozymes	W. Douglas Crabb Deposition Exhibit No. 14	GCOR032614 - GCOR032639	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay)
TE164	03/08/04 Emails between Doug Crabb, Eugenio Ferrari and Cynthia Blumenthal regarding EBS2	Novozymes	W. Douglas Crabb Deposition Exhibit No. 15	GCOR072543 - GCOR072545	Objection: FRE 801-802 (Hearsay)
TE165	04/19/02 & 04/22/02 Emails between Doug Crabb, Kevin Griffith and Jodi Henderson regarding EBS's Proposed New Ultra-pHLo Product	Novozymes	W. Douglas Crabb Deposition Exhibit No. 16	GCOR071139 - GCOR071140	Objection: FRE 801-802 (Hearsay)
TE166	0/10/02 Email from Doug Crabb to John Gell, John Monks and Volkert Claassen regarding Fred Upgrade Update	Novozymes	W. Douglas Crabb Deposition Exhibit No. 17	GCOR112536 - GCOR112538	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay)
TE167	07/07/05 Email from Tom Alber to Brett Lovejoy regarding Genencor	Novozymes	Thomas Alber Deposition Exhibit No. 102	GCOR167130 - GCOR167132	Stipulated
TE168	Hand drawing of two sequences of amino acids labeled "A" and "B" with 10 amino acids in a row deleted from the middle of "B"	Novozymes	Thomas Alber Deposition Exhibit No. 103		Stipulated
TE169	Handwritten notes of Thomas Alber made when drafting his declaration	Novozymes	Thomas Alber Deposition Exhibit No. 105	GCOR166891 - GCOR166892	Stipulated
TE170	08/08/05 Email from Brett Lovejoy to tom@ucxray.berkeley.edu attaching file titled "CAJD_514823.DOC"	Novozymes	Thomas Alber Deposition Exhibit No. 107	GCOR166926 - GCOR166928	Stipulated
TE171	Handwritten notes of Thomas Alber describing edits to a late version of his declaration	Novozymes	Thomas Alber Deposition Exhibit No. 109	GCOR166897 - GCOR166901	Stipulated

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TE172	Genencor Presentation titled "Spezyme® Ethyl/Prime Amylase"	Novozymes	David J. Teece Deposition Exhibit No. 5	GCOR112335 - GCOR112408	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay)
TE173	<p>M. Machius, <i>et al.</i>, <i>Crystal Structure of Calcium-depleted Bacillus Licheniformis alpha amylase at 2.2 Å Resolution</i>, JOURNAL OF MOLECULAR BIOLOGY, pp. 545-559 (1995).</p> <p>NOTE: Use entire Machius Exhibit M which includes both Black and White with date stamp and color version.</p>	Novozymes and Genencor/EDC	<p>Zeikus Deposition Exh. 153; Machius Deposition Exh. 212 (in color without bates no.;</p> <p>S. Jorgensen Deposition Exh. 12); S. Jorgensen Deposition Exh. 12; Exh. 6 to the Second Arnold Declaration; Exh. 1 to Borchert Declaration; Borchert Deposition Exh. 57; Exh. H to Defendant's Opposition (APP. 1304-1332); Exh. Z to the Alber Report; Exh. M to the Machius Expert Report; Exh. 3 to the Arnold Rebuttal Report; Exh. 5 to the Davies Rebuttal</p>		Stipulated
TE174	09/07/05 Email from Greg Zeikus to Muna Abu-Shaar attaching re-plotted Borchert data	Novozymes	Gregory Zeikus Deposition Exhibit No. 155	GCOR168937 - GCOR168938	Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE175	M. Machius <i>et al.</i> , <i>Activation of Bacillus licheniformis alpha-amylase Through a Disorder -> Order Transition of the Substrate-binding Site Mediated by a Calcium-Sodium-Calcium Metal Triad</i> , STRUCTURE, Vol. 6 No. 3, pp. 281 - 292 (1998).	Novozymes and Genencor/EDC	Zeikus Deposition Exh. 159; Exh. N to the Machius Expert Report; Exh. 6 to the Davies Rebuttal	GCOR168808 - GCOR168819	Stipulated
TE176	09/02/05 Email from Gregory Zeikus to Muna Abu Shaar attaching alpha-amylase half-lives table	Novozymes	Gregory Zeikus Deposition Exhibit No. 161	GCOR168950 - GCOR168951	Stipulated
TE177	Bisgard-Frantzen <i>et al.</i> , PCT Publication No. WO 95/10603, titled "Amylase Variants" and dated April 20, 1995	Novozymes and Genencor/EDC	Mischa Machius Deposition Exhibit No. 205		Stipulated
TE178	C. Vieille and G. Zeikus, <i>Thermozymes: Identifying Molecular Determinants of Protein Structural and Functional Stability</i> , TRENDS IN BIOTECHNOLOGY, Vol. 14, pp. 183 - 190 (1996).	Novozymes and Genencor/EDC	Machius Deposition Exh. 206; Exh. V to the Machius Expert Report; Exh. 11 to the Davies Rebuttal; Exh. 1 to the Second Arnold Declaration (APP. 865-872)		Stipulated
TE179	G. Davies, <i>et al.</i> , <i>The Structure of a Thermally Stable 3-Phosphoglycerate Kinase and a Comparison With Its Mesophilic Equivalent, Proteins Structure Function, and Genetics</i> , Vol. 15, No. 3, pp. 283-289 (1993).	Novozymes and Genencor/EDC	Mischa Machius Deposition Exhibit No. 208; Exh. 3 to the Second Arnold Declaration (APP. 772-779); Exh. 4 to the Davies Rebuttal; Exh. H to the Machius Expert Report		Stipulated

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TE180	Certified Copy of English Translation of the thesis of Mischa Machius titled "Studies on the Structure/Function Relationships of Glutathione S-Transferases and -Amylases"	Novozymes	Mischa Machius Deposition Exhibit No. 209		Stipulated
TE181	T. Yuuki <i>et al.</i> , <i>Complete Nucleotide Sequence of a Gene Coding for Heat-and pH-Stable alpha-Amylase of Bacillus licheniformis: Comparison of the Amino Acid Sequences of Three Bacterial Liquefying alpha-Amylases Deduced from the DNA Sequences</i> , Vol. 98, No. 5, pp. 1147- 1156 (1985).	Novozymes and Genencor/EDC	Mischa Machius Deposition Exhibit No. 209; Exh. Z to the Machius Expert Report		Stipulated
TE182	Experimental Data (in color)	Novozymes and Genencor/EDC	Exhibit 50 to Borchert Deposition	NV-0174630 - NV-0174688	Stipulated
TE183	N. Declerck <i>et al.</i> , <i>Probing Structural Determinants Specifying High Thermostability in Bacillus licheniformis alpha-Amylase</i> , JOURNAL OF MOLECULAR BIOLOGY, pp. 1041 - 1057 (2000).	Novozymes and Genencor/EDC	Machius Deposition Exh. 212; Exh. AO to the Alber Report		Stipulated
TE184	N. Declerck <i>et al.</i> , <i>Hyperthermostabilization of Bacillus licheniformis alpha-amylase and modulation of its stability over a 50 degree Celsius temperature range</i> , PROTEIN ENGINEERING, Vol. 16, No. 4, pp. 287-293 (2003).	Novozymes and Genencor/EDC	Machius Deposition Exh. 215; Exh. AM to the Alber Report; Exh. J to the Machius Expert Report		Stipulated
TE185	P. Joyet <i>et al.</i> , <i>Hyperthermostable Variants of a Highly Thermostable Alpha-Amylase</i> , BIOTECHNOLOGY, Vol. 10, pp. 1579 - 1583 (1992).	Novozymes and Genencor/EDC	Machius Deposition Exh. 216; Exh. K to the Machius Expert Report		Stipulated

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TE186	M. Machius, <i>Kinetic Stabilization of Bacillus licheniformis alpha-Amylase through Introduction of Hydrophobic Residues at the Surface</i> , JOURNAL OF BIOLOGICAL CHEMISTRY, Vol. 278, No. 13, pp. 11546 - 11553 (2003).	Novozymes and Genencor/EDC	Machius Deposition Exh. 217; Exh. AN to the Alber Report		Stipulated
TE187	Figure 1, an overall view of BLA in the absence of Calcium	Novozymes and Genencor/EDC	Exh. D to the Machius Expert Report; Exh. D to the Machius Expert Report		Stipulated
TE188	Enzyme Development Corporation's Responses to Plaintiff Novozymes A/S' First Set of Interrogatories dated 07/22/05	Novozymes			Stipulated
TE189	Genencor International, Inc.'s Responses to Plaintiff Novozymes A/S' First Set of Interrogatories dated 07/22/05	Novozymes			Stipulated
TE190	Defendants' Responses to Plaintiff's First Set of Requests for Admissions dated 07/22/05	Novozymes			Stipulated
TE191	08/09/05 E-mail from Greg Lanier to Robert Sullivan Containing Supplemental Discovery Responses from Genencor and EDC	Novozymes			Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay)
TE192	Enzyme Development Corporation's Supplemental Responses to Plaintiff Novozymes A/S' First Set of Interrogatories dated 09/16/05	Novozymes			Stipulated
TE193	Genencor International, Inc.'s Second Supplemental Responses to Plaintiff Novozymes A/S' First Set of Interrogatories dated 01/09/06	Novozymes			Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE194	Genencor International, Inc.'s Third Supplemental Responses to Plaintiff Novozymes A/S' First Set of Interrogatories dated 01/20/06	Novozymes			Stipulated
TE195	01/29/02 Memorandum from W. M. Teague to M. Friesema regarding The December 20 alpha-Amylase Mutant Methods of Construction	Novozymes	Exhibit 2 to the Declaration of W. Douglas Crabb in Support of Genencor's and EDC's Opposition to Novozymes' Motion for Preliminary Injunction	GCOR002762 - GCOR002764	Stipulated
TE196	Spezyme Ethyl Sales Data	Novozymes		GCOR170228 - GCOR170232	Objection: FRE 401-403 (Relevance)
TE197	Spezyme Fred Sales Data	Novozymes		GCOR170228 - GCOR170232	Objection: FRE 401-403 (Relevance)
TE198	Genencor's 1 st Supplemental response to Novozymes' First Set of Interrogatories dated 9/16/05	Novozymes			Stipulated
TE199	G-ZYME G997 Amino Acid Sequence	Novozymes	Exhibit 2 to the Second Declaration of Christian Isak Jorgensen dated 12/19/05		Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders
TE200	Genencor International Inc.'s Fourth Supplemental Response to Novozymes' First Set of Interrogatories dated 01/31/06	Novozymes			Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE201	Amino Acid Sequence of Alpha-Amylase Isolated from BSG Strain ATCC 31,195	Novozymes	Exhibit 3 to the Third Declaration of Isak Jorgensen dated 1/31/06		Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders
TE202	United States Patent Application, Pub. No. 2006/0014265 A1, titled, "Mutant Alpha-Amylases," Ferrari et al. (01/19/06)	Novozymes			Stipulated
TE203	File History for Patent Application 11/102,188	Novozymes		GCOR005142 - GCOR005196; GCOR170233 - GCOR170275	Stipulated
TE204	Enzyme Development Corporation's Second Supplemental Responses to Plaintiff Novozymes A/S' First Set of Interrogatories dated 01/31/06	Novozymes			Stipulated
TE205	ATCC 31,195 Experimental Protocol	Novozymes			Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders
TE206	G997 Experimental Protocol	Novozymes			Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders

Exhibit	Description	Offered By	Source	Production No.	Objection
TE207	Pullulanase Activity/Stability Assay	Novozymes		NZ-200265	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders
TE208	Frances Arnold Linear Regression Plots	Novozymes		NV-200267 - NV-200270	Objection: FRE 401-403 (Relevance) FRE 702-705 (Improper Expert Testimony) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders
TE209	Christian Jorgensen's ATCC 31,195 Database Entry	Novozymes		NV-200281	Objection: FRE 401-403 (Relevance) FRE 702-705 (Improper Expert Testimony) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders

Exhibit	Description	Offered By	Source	Production No.	Objection
TE210	ATCC 31,195 Database Entry	Novozymes		NV-200282	Objection: FRE 401-403 (Relevance) FRE 702-705 (Improper Expert Testimony) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders
TE211	Christian Jorgensen's G997 Database Entry	Novozymes		NV-200283	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay) FRE 702-705 (Improper Expert Testimony) FRCP 26/Court's Scheduling Orders
TE212	G997 Competitive Database Entry	Novozymes		NV-200284	Objection: FRE 401-403 (Relevance) FRE 702-705 (Improper Expert Testimony) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders

Exhibit	Description	Offered By	Source	Production No.	Objection
TE213	Frances Arnold Linear Regression Plots (Ice-Zero Data)	Novozymes		NV-200285 - NV-200287	Objection: FRE 401-403 (Relevance) FRE 702-705 (Improper Expert Testimony) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders
TE214	PHYSICAL EXHIBIT: Sample Novozymes' vials used to hold BSG-DEL enzyme sample in the heat incubator/oven during the experiments of Borchert's 132 Declaration`	Novozymes			Objection: FRE 401-403 (Relevance) FRE 702-705 (Improper Expert Testimony) FRE 901 (Authentication) FRCP 26/Court's Scheduling Orders
TE215	PHYSICAL EXHIBIT: Sample Novozymes Test tubes used to hold enzyme samples in the PCR thermocycler	Novozymes			Objection: FRE 401-403 (Relevance) FRE 702-705 (Improper Expert Testimony) FRE 901 (Authentication) FRCP 26/Court's Scheduling Orders

Exhibit	Description	Offered By	Source	Production No.	Objection
TE216	PHYSICAL EXHIBIT: Standard eppendorf tubes that are used to hold enzyme sample during the amylase activity assay described in Dr. Borchert's 132 Declaration	Novozymes			Objection: FRE 401-403 (Relevance) FRE 702-705 (Improper Expert Testimony) FRE 901 (Authentication) FRCP 26/Court's Scheduling Orders
TE217	PHYSICAL EXHIBIT: Phadebas amylase test tablets used as substrate during the amylase activity assay described in Dr. Borchert's 132 Declaration	Novozymes			Objection: FRE 401-403 (Relevance) FRE 702-705 (Improper Expert Testimony) FRE 901 (Authentication) FRCP 26/Court's Scheduling Orders
TE218	Jeppe Tams Lab Notebook 13704, pages 070-072 (re: Determination of ½ life for BAN-WT experiment)	Novozymes	Exhibit 113 to Deposition of Jeppe Tams	NV-200203 - NV-200205	Objection: FRE 401-403 (Relevance) FRE 702-705 (Improper Expert Testimony) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders

Exhibit	Description	Offered By	Source	Production No.	Objection
TE219	Jeppe Tams Lab Notebook 15305, pages 044-046 (re: Determination of ½ life for BAN-WT experiment)	Novozymes	Exhibit 114 to Deposition of Jeppe Tams	NV-200200 - NV-200202	Objection: FRE 401-403 (Relevance) FRE 702-705 (Improper Expert Testimony) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders
TE220	Defendants' English Language Translation of TE 207 (Pullulanase Activity/Stability Assay)	Novozymes	Exhibit 307 to Deposition of Frances Arnold (2/28/06)		Objection: FRE 401-403 (Relevance) FRE 702-705 (Improper Expert Testimony) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders
TE221	Declaration of Torben V. Borchert, dated September 7, 2004	Novoyzmes	Arnold Deposition Exh. 43; Exh. H to the Memorandum of Law i/s/o Plaintiff's Motion; Exh. I to Defendant's Opposition (APP. 1426-1443); Exh. C to the Machius Expert Report; Exh. C to the Klivanov Report; Exh. 5 to the Arnold Rebuttal Report	NV-0154096 - NV-0154113	Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE222	Notice of Allowance from U.S. Application No. 09/902,188	Novozymes			Stipulated
TE223	PHYSICAL EXHIBIT: PCR thermocycler test tubes	Novozymes			Objection: FRE 401-403 (Relevance) FRE 702-705 (Improper Expert Testimony) FRE 901 (Authentication) FRCP 26/Court's Scheduling Orders

Exhibit	Description	Offered By	Source	Production No.	Objection
TE501	File History of U.S. Application No. 09/354,191, filed July 15, 1999	Genencor/EDC			Stipulated
TE502	File History of U.S. Application No. 08/600,656, filed February 13, 1996	Genencor/EDC			Stipulated
TE503	File History of U.S. Application No. 09/902,188, filed July 10, 2001	Genencor/EDC			Stipulated
TE504	PCT Publication No. WO 96/23873, entitled Amylase Variants, by Bisgard-Frantzen et al., published August 8, 1996	Genencor/EDC			Stipulated
TE505	Declaration of Christian Isak Jorgensen, dated June 16, 2005) (with exhibits)	Genencor/EDC	C. Jorgensen Deposition Exh. 1; Exh. F to Memorandum of Law i/s/o Plaintiff's Motion		Stipulated
TE506	Email dated August 3, 2005 from A. Vikso-Nielsen to C. Sonksen et al., re: spezyme ethyl GCI characterization	Genencor/EDC	C. Jorgensen Deposition Exh. 3	NV-0070872	Stipulated
TE507	Email dated May 24, 2005 from D. Boyce to T. Burns et al., re Com Plus - Visit To Customer - 5/24/2005	Genencor/EDC	LeFebvre Deposition Exh. 27; Exh. O to Defendant's Opposition (APP. 1735 - 1737)	NV-0053244 - NV-0053246	Objection: FRE 801-802 (Hearsay)

Exhibit	Description	Offered By	Source	Production No.	Objection
TE508	Declaration of Torben V. Borchert, dated September 7, 2004	Genencor/EDC	Arnold Deposition Exh. 43; Exh. H to the Memorandum of Law i/s/o Plaintiff's Motion; Exh. I to Defendant's Opposition (APP. 1426-1443); Exh. C to the Machius Expert Report; Exh. C to the Klivanov Report; Exh. 5 to the Arnold Rebuttal Report	NV-0154096 - NV-0154113	Stipulated
TE509	<i>A Truncated, thermostable Bacillus steadothemophilus alpha amylase</i> (1987)	Genencor/EDC	Arnold Deposition Exh. 45	NV-0154314	Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE510	United States Patent Application Publication No. US 2003/0228673 A1, dated December 11, 2003	Genencor/EDC	Arnold Deposition Exh. 47		Stipulated
TE511	Declaration of Frances H. Arnold in Novozymes A/S v. Enzyme Bio-Systems Ltd. et al., dated January 4, 2002	Genencor/EDC	Arnold Deposition Exh. 48	NV-0026897 - NV-0026924	Stipulated
TE512	Preliminary Amendment re Bisgard-Frantzen Application, dated December 19, 2001.	Genencor/EDC	Borchert Deposition Exh. 51A; Exh. H to Defendant's Opposition (APP. 935-940)		Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE513	Office Action Summary re Application no: 10/025,648, dated July 29, 2003.	Genencor/EDC	Borchert Deposition Exh. 51B; Exh. H to Defendant's Opposition (APP. 941-951)		Stipulated
TE514	Amendment to Claims re application no: 10/025,648, dated September 7, 2004.	Genencor/EDC	Borchert Deposition Exh. 51C; Exh. H to Defendant's Opposition (APP. 952-956)		Stipulated
TE515	Office Action Summary re Application no: 10/025,648, dated April 6, 2004.	Genencor/EDC	Borchert Deposition Exh. 51D; Exh. H to Defendant's Opposition (APP. 958-969)		Stipulated
TE516	Email dated August 11, 2004 from T. Borchert to K. Brown et al., re Spezyme deletion area detected	Genencor/EDC	Borchert Deposition Exh. 51E; Exh. H to Defendant's Opposition (APP. 970)	NV-0105362	Stipulated
TE517	Examiner-Initiated Interview Summary re application no: 10/025,648	Genencor/EDC	Borchert Deposition Exh. 51F; Exh. H to Defendant's Opposition (APP. 971-972)		Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE518	Amendment to Claims re application no: 10/025,648	Genencor/EDC	Borchert Deposition Exh. 51G; Exh. H to Defendant's Opposition (APP. 973-978)		Stipulated
TE519	Email from H. Bisgard-Frantzen to A. Norgaard et al., re Spezyme Ethyl	Genencor/EDC	Borchert Deposition Exh. 51H; Exh. H to Defendant's Opposition (APP. 979)	NV-0104922	Stipulated
TE520	Foreign Patent Application No: PA 1995 00126, filed February 3, 1995.	Genencor/EDC	Borchert Deposition Exh. 53; Exh. H to Defendant's Opposition (APP. 986-1047)		Stipulated
TE521	Foreign Patent Application No: PA 1995 00336, filed March 29, 1995.	Genencor/EDC	Borchert Deposition Exh. 54; Exh. H to Defendant's Opposition (APP. 1048-1128)		Stipulated
TE522	Foreign Patent Application No: PA 1995 01097, filed September 29, 1995.	Genencor/EDC	Borchert Deposition Exh. 55; Exh. H to Defendant's Opposition (APP. 1129-1215)		Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE523	Foreign Patent Application No: PA 1995 01121, filed October 6, 1995.	Genencor/EDC	Borchert Deposition Exh. 56; Exh. H to Defendant's Opposition (APP. 1216-1303)		Stipulated
TE524	Declaration of Torben V. Borchert - Patent Interference No. 105, 206(JTM)	Genencor/EDC	Borchert Deposition Exh. 58; Exh. H to Defendant's Opposition (APP. 1333-1413); Exh. 3 to Borchert Declaration	NV-0021407 - NV-0021435	Stipulated
TE525	Deposition Transcript of the Deposition of Torben Borchert, Ph.D., dated September 27, 2004	Genencor/EDC	Borchert Deposition Exh. 59	NV-0173970 - NV-0174050	Stipulated
TE526	SR1 Spezyme Ethyl SM Action Plan - Proposal, dated August 20 to November 30, 2004	Genencor/EDC	Garbell Deposition Exh. 64	NV-0004794 - NV-004796	Stipulated
TE527	Declaration of William R. Pearson, dated September 8, 2005 (with exhibits)	Genencor/EDC	Pearson Deposition Exh. 69; Exh. D to Defendant's Opposition (APP. 446-491)		Stipulated
TE528	Email dated October 25, 2005 from W. Pearson to S. Wang re: Sequence alignment by the Align Program.	Genencor/EDC	Pearson Deposition Exh. 70		Stipulated
TE529	Declaration of Xiaoqiu Huang, dated September 8, 2005 (with exhibits)	Genencor/EDC	Huang Deposition Exh. 79; Exh. E to Defendant's Opposition (APP 492-524)		Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE530	O. Salazar <i>et al.</i> , <i>Thermostabilization of a Cytochrome P450 Peroxygenase</i> , CHEMBIOCHEM, pp. 891 - 893.	Genencor/EDC	Second Arnold Deposition Exh. 85		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE531	P. L. Wintrode <i>et al.</i> , <i>Cold Adaptation of a Mesophilic Subtilism-like Protease by Laboratory Evolution</i> , JOURNAL OF BIOLOGICAL CHEMISTRY, Vol. 275, No. 41, pp. 31635 - 31640 (2000).	Genencor/EDC	Second Arnold Deposition Exh. 86		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE532	Curriculum Vitae of Thomas Clifford Alber	Genencor/EDC	Exh. 1 to the Alber Declaration (APP. 152-161); Exh. A to the Alber Report		Stipulated
TE533	Spezyme Ethyl Amino Acid Sequence	Genencor/EDC	Exh. 3 to the Alber Declaration (APP. 171); Exh. 3 to the Second Devereux Declaration; Exh. 9 to the Second Alber Report; Exh. 9 to the Arnold Report; Exh. 2 to the Devereux Report		Stipulated
TE534	The File Fastal16c32.shar.Z for FASTA Version1.6 as Downloaded from the URL: ftp.virginia.edu/pub/fasta/tmp/fastal16c32.shar.Z (On Compact Disk)	Genencor/EDC	Exh. 5 to the Alber Declaration (APP. 174)		Objection: FRE 801-802 (Hearsay)

Exhibit	Description	Offered By	Source	Production No.	Objection
TE535	The File Fastal16c32.shar.Z for FASTA Version1.6 as Downloaded from the URL: ftp.virginia.edu/pub/fasta/tmp/fasta16c32.shar.Z (On Compact Disk)	Genencor/EDC	Exh. 5A to the Alber Declaration (APP. 175)		Objection: FRE 801-802 (Hearsay)
TE536	Executable ALIGN Program from FASTA version 1.6 (On Compact Disc)	Genencor/EDC	Exh. 5B to the Alber Declaration (APP. 176); Exh. 56 to the Second Alber Report		Objection: FRE 801-802 (Hearsay)
TE537	Compact disk	Genencor/EDC	Exh. 7 to the Alber Declaration (APP.179)		Objection: FRE 801-802 (Hearsay)
TE538	GAP (Huang) Source Cofe File gap.c available at ftp://cs.mtu.edu/pub/huang	Genencor/EDC	Exh. 7A to the Alber Declaration (APP. 180)		Objection: FRE 801-802 (Hearsay)
TE539	Executable GAP (Huang) Program (on compact disk)	Genencor/EDC	Exh. 7B to the Alber Declaration (APP. 181); Exh. 59 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE540	GAP (Huang) Alignment: SEQ ID No: 3 to spezyme Ethyl	Genencor/EDC	Exh. 8 to the Alber Declaration (APP. 182 - 184)		Objection: FRE 801-802 (Hearsay)
TE541	Hypothetical Alpha-Amylase Amino Acid Sequence	Genencor/EDC	Exh. 9 to the Alber Declaration (APP. 185)		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE542	GAP (GCG) Alignment: SEQ ID No. 3 to Hypothetical alpha-amylase	Genencor/EDC	Exh. 10 to the Alber Declaration (APP. 186 - 187)		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE543	ATCC 31,195 Alpha-Amylase Variant Amid Acid Sequence	Genencor/EDC	Exh. 11 to the Alber Declaration (APP. 188)		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE544	GAP (GCG) Alignment: Spezyme Ethyl to ATCC 31,195 alpha-amylase Variant	Genencor/EDC	Exh. 12 to the Alber Declaration (APP. 189 - 190)		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE545	Caenepeel, S. <i>et al.</i> , <i>The mouse kinome: Discovery and comparative genomics of all mouse protein kinases</i> , PROC NATL. ACAD. SCI. USA 101, pp. 11707 - 11712 (2004).	Genencor/EDC	Exh. 13 to the Alber Declaration (APP-192-197); Exh. 29 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE546	Stedman, H. <i>et al.</i> , <i>Myosin gene mutation correlates with anatomical changes in the human lineage</i> , NATURE, Vol. 428, pp. 415-418 (2004).	Genencor/EDC	Exh. 14 to the Alber Declaration (APP. 199-202); Exh. 30 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE547	Satoh, H. <i>et al.</i> , <i>Evidence for Movement of the alpha-amylase Gene in Two Phylogenetically Distant Bacillus stearothermophilus Strains</i> , JOURNAL OF BACTERIOLOGY, Vol. 170 No. 3, pp. 1034-1040 (1998).	Genencor/EDC	Exh. 15 to the Alber Declaration (APP. 203 - 210); Exh. 31 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE548	Janecek, S., <i>Sequence similarities and evolutionary relationships of microbial, plant and animal alpha-amylase</i> , EUROPEAN JOURNAL BIOCHEM, 224, pp. 519-524 (1994).	Genencor/EDC	Exh. 16 to the Alber Declaration (APP. 211 - 217); Exh. 32 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE549	Janecek, S. <i>et al.</i> , <i>Domain Evolution in the alpha-amylase Family</i> , JOURNAL OF MOLECULAR EVOLUTION, 45, pp. 322 - 331 (1997).	Genencor/EDC	Exh. 17 to the Alber Declaration (APP. 218-228); Exh. 33 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE550	Dauter, Z. <i>et al.</i> , <i>X-ray Structure of Novamyl, the Five-Domain "Maltogenic" alpha-amylase from Bacillus stearothermophilus: Maltose and Acarbose Complexes at 1.7 A Resolution</i> , BIOCHEMISTRY, 38, pp. 8385 - 8392 (1999).	Genencor/EDC	Exh. 18 to the Alber Declaration (APP. 229-237); Exh. 34 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE551	Crick, F.H.C., <i>On the Genetic Code</i> , SCIENCE, NEW SERIES, Vol. 139, No. 3554, p. 461-464 (1963).	Genencor/EDC	Exh. 19 to the Alber Declaration (APP. 238-243); Exh. 35 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE552	Benzer, S., Champe, S. P., <i>A Change from Nonsense to Sense in the Genetic Code</i> , PROC NATL. ACAD. SCI. USA, Vol. 42, No. 7, pp. 1114-1121 (1962).	Genencor/EDC	Exh. 20 to the Alber Declaration (APP.244 - 253); Exh. 36 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE553	J. H. Miller <i>et al.</i> , <i>Genetic Studies of the lac Repressor</i> , JOURNAL OF MOLECULAR BIOLOGY, Vol. 131, pp. 191-222 (1979).	Genencor/EDC	Exh. 21 to the Alber Declaration (APP. 254-290); Exh. 37 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE554	Miller, J. H., <i>Use of Nonsense Suppression to Generate Altered Proteins</i> , METHODS OF ENZYMOLOGY, Vol. 208, pp. 543 - 563 (1991).	Genencor/EDC	Exh. 22 to the Alber Declaration (APP. 291-311); Exh. 38 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE555	Poteete, A., Hardy, L., <i>MINIREVIEW: Genetic Analysis of Bacteriophage T4 Lysozyme Structure and Function</i> , JOURNAL OF BACTERIOLOGY, Vol. 176, No. 22, pp. 6783 - 6788 (1994).	Genencor/EDC	Exh. 23 to the Alber Declaration (APP.312 - 318); Exh. J to the Alber Report; Exh. 39 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE556	Platt, T. <i>et al.</i> , <i>Translational Restarts: AUG Reinitiation of a lac Repressor Fragment</i> , PROC NATL. ACAD. SCI. USA, Vol. 69, No. 4, pp. 897 - 901 (1972).	Genencor/EDC	Exh. 24 to the Alber Declaration (APP.319 -324); Exh. 40 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE557	Files, J. <i>et al.</i> , <i>Translational Reinitiation of lac Repressor Fragments at Three Internal Sites Early in the lac i gene of Escherichia coli</i> , PROC. NAT. ACAD. SCI USA, Vol. 71, No. 3, pp. 667-670 (1974).	Genencor/EDC	Exh. 25 to the Alber Declaration (APP. 326-329); Exh. 41 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE558	Gene, Nagase, H., and Nakamura, Y., <i>Mutations of the APC (Adenomatous Polyposis Coli)</i> , HUMAN MUTATION, Vol. 2, pp. 425-434 (1993).	Genencor/EDC	Exh. 26 to the Alber Declaration (APP.331-340); Exh. 42 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE559	Dayhoff, M., <i>Protein Data Introduction</i> , ATLAS OF PROTEIN SEQUENCE AND STRUCTURE, D-1 -D-10 (1972).	Genencor/EDC	Exh. 27 to the Alber Declaration (APP. 341 - 353); Exh. 43 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE560	Linzen <i>et al.</i> , <i>The Structure of Arthropod Hemocyanins</i> , SCIENCE, Vol. 229, No. 4713, pp. 519 - 524 (1985).	Genencor/EDC	Exh. 28 to the Alber Declaration (APP. 356 - 361); Exh. 44 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE561	Byrant-Greenwood, G., Schwabe, C., <i>Human Relaxins: Chemistry and Biology</i> , ENDOCRINE REVIEWS, Vol. 15, No. 1, pp. 5 - 26 (1994).	Genencor/EDC	Exh. 29 to the Alber Declaration (APP. 362 -384); Exh. 45 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE562	Dickerson, R.E., Geis, I., <u>The Structure and Action of Proteins</u> , Harper & Row, New York. pp. 52-66 (1969).	Genencor/EDC	Exh. 30 to the Alber Declaration (APP. 385-401); Exh. 46 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE563	Sambrook, Fritsch and Maniatis, <u>Molecular Cloning: A Laboratory Manual</u> , 2nd ed., Cold Springs Harbor Laboratory Press, Cold Spring Harbor, NY, pp. 5.73-5.77 (1989).	Genencor/EDC	Exh. 31 to the Alber Declaration (APP. 402 - 407)		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE564	Astromoff, AN., Ptashne, M., <i>A Variant of lambda Repressor with an Altered Patterned of Cooperative Binding to DNA Sites</i> , PROC NATL. ACAD. SCI. USA, Vol. 92, No. 19, pp. 8110-8114 (1995).	Genencor/EDC	Exh. 32 to the Alber Declaration (APP. 408-414); Exh. 48 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE565	Nye, J. <i>et al.</i> , <i>Interaction of Murine Ets-1 with GGA-binding sites establishes the ETS domain as a new DNA-binding motif</i> , GENES & DEVELOPMENT, Vol. 6, pp. 975 - 990 (1992).	Genencor/EDC	Exh. 33 to the Alber Declaration (APP. 415-430); Exh. 49 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE566	Glumoff, T. <i>et al.</i> , <i>A Truncated, Thermostable Bacillus stearothermophilus alpha-amylase</i> , PROTEIN ENGINEERING, p. 241 (1987).	Genencor/EDC	Exh. 34 to the Alber Declaration (APP.431-432); Exh. 50 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE567	M. Vihinen <i>et al.</i> , <i>C-Terminal truncations of a Thermostable Bacillus Strearothermophilus alpha amylase</i> , PROTEIN ENGINEERING, Vol. 7, No. 10, pp. 1255 - 1259 (1994).	Genencor/EDC	Exh. 35 to the Alber Declaration (APP. 433-438); Arnold Deposition Exh. 46; Second Alber Deposition Exh. 202; Exh. AQ to the Alber Report; Exh. 24 to the Second Alber Report	NV-0154302 - NV-0154306	Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE568	Nakajima, R. <i>et al.</i> , <i>Nucleotide Sequence of the Bacillus stearothermophilus alpha-Amylase Gene</i> , JOURNAL OF BACTERIOLOGY, Vol. 163, No. 1, pp. 401 - 406 (1985).	Genencor/EDC	Exh. 36 to the Alber Declaration (APP.439-445); Exh. 15 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE569	Lindgren and McElrath, <u>Introduction to Probability and Statistics</u> , Macmillan, New York, 1959, pp. 7-10 (1959).	Genencor/EDC	Exh. C to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE570	M. H. Hecht <i>et al.</i> , <i>Effect of single amino acid replacements on the thermal stability of NH2-terminal domain of phage lambda repressor</i> , PROCEEDINGS OF NATIONAL ACADEMY OF SCIENCE, Vol. 81, pp. 5685-5689 (1984).	Genencor/EDC	Exh. D to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE571	T. Alber <i>et al.</i> , <i>Replacements of Pro 86 in phage T4 Lysozyme Extend an alpha-Helix But Do Not Alter Protein Stability</i> , SCIENCE, Vol. 239, pp. 631 - 635 (1988).	Genencor/EDC	Exh. E to the Alber Report; Exh. 3 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE572	D. W. Heinz <i>et al.</i> , <i>Folding and function of a T4 lysozyme containing 10 consecutive alanines illustrate the redundancy of information in an amino acid sequence</i> , PROCEEDINGS OF NATIONAL ACADEMY SCIENCE, Vol. 89, pp. 3751-3755 (1992).	Genencor/EDC	Exh. F to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE573	J. F. Reidhaar-Olson <i>et al.</i> , <i>Combinatorial Cassette Mutagenesis as a Probe of the Informational Content of Protein Sequences</i> , RESEARCH ARTICLES, Vol.241, pp. 53 - 57 (1998).	Genencor/EDC	Exh. G to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE574	J. U. Bowie <i>et al.</i> , <i>Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions</i> , SCIENCE, Vol. 247, pp. 1306-1310 (1990).	Genencor/EDC	Exh. H to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE575	J. A. Ybe <i>et al.</i> , <i>Sequence replacements in the central beta-turn of plastocyanin</i> , PROTEIN SCIENCE, pp. 814 - 824 (1996).	Genencor/EDC	Exh. I to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE576	P. Markiewicz <i>et al.</i> , <i>Genetic Studies of the lac Repressor - Analysis of 4000 Altered Escherichia coli lac Repressors Reveals Essential and Non-essential Residues, as well as "Spacers" which do not Require a Specific Sequence</i> , pp. 421-433 (1994).	Genencor/EDC	Exh. K to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE577	W. A. Lim, <i>et al.</i> , <i>The Crystal structure of a mutant protein with altered but improved hydrophobic core packing</i> , Vol. 31, pp. 423-427 (1994).	Genencor/EDC	Exh. L to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE578	W. A. Lim <i>et al.</i> , <i>Structural and Energetic Consequences of Disruptive Mutations in a Protein Core</i> , BIOCHEMISTRY, Vol. 31, No. 17, pp. 4324 - 4333 (1992).	Genencor/EDC	Exh. M to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE579	W. A. Lim, <i>Alternative packing arrangements in the hydrophobic core of the lambda repressor</i> , NATURE, Vol. 339, pp. 31 - 36 (1989).	Genencor/EDC	Exh. N to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE580	E.P. Baldwin, <i>et al.</i> , <i>The Role of Backbone Flexibility of Variants That Repack the Core of T4 Lysozyme</i> , SCIENCE, Vol. 262, pp. 1715 - 1718 (1993).	Genencor/EDC	Exh. O to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE581	P. B. Harbury <i>et al.</i> , <i>A Switch Between Two-, Three-, and Four-Stranded Coiled Coils in GCN4 Leucine Zipper Mutants</i> , SCIENCE, Vol. 262, pp. 1401 - 1407 (1993).	Genencor/EDC	Exh. P to the Alber Report; Exh. 5 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE582	J. R. Desjarlais <i>et al.</i> , <i>De Novo design of the hydrophobic cores of proteins</i> , PROTEIN SCIENCE, pp. 2006 - 2018 (1995).	Genencor/EDC	Exh. Q to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE583	F. H. Arnold, <i>When blind is better: Protein design by evolution</i> , NATURE BIOTECHNOLOGY, Vol. 16, pp. 617 - 618 (1998).	Genencor/EDC	Exh. R to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE584	H. H. Guo, <i>et al.</i> , <i>Protein tolerance to random amino acid change</i> , PNAS, Vol. 101, No. 25, pp. 9205-9210 (2004).	Genencor/EDC	Exh. S to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE585	J. D. Bloom, <i>et al.</i> , <i>Thermodynamic prediction of protein neutrality</i> , PNAS, Vol. 102, No. 3, pp. 606 - 611 (2005).	Genencor/EDC	Exh. T to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE586	D. A. Drummond, <i>et al.</i> , <i>Why High-error-rate Random Mutagenesis Libraries are Enriched in Functional and Improved Proteins</i> , JOURNAL OF MOLECULAR BIOLOGY, pp. 806 - 816 (2005).	Genencor/EDC	Exh. U to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE587	S. Kamtekar <i>et al.</i> , <i>Protein Design by Binary Patterning of Polar and Nonpolar Amino Acids</i> , SCIENCE, Vol. 262, pp. 1680 - 1685 (1993).	Genencor/EDC	Exh. V to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE588	N. Declerck <i>et al.</i> , <i>Use of Amber Suppressors to Investigate the Thermostability of Bacillus licheniformis alpha-amylase</i> , JOURNAL OF BIOLOGICAL CHEMISTRY, Vol. 265, No. 26, pp. 15481 - 15488 (1990).	Genencor/EDC	Exh. W to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE589	B. Matthews, <i>Structural and Genetic Analysis of Protein Stability</i> , ANNUAL REVIEWS, pp. 139 - 160 (1993).	Genencor/EDC	Exh. X to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE590	P. L. Wintrode <i>et al.</i> , <i>Patterns of adaptation in a laboratory evolved thermophilic enzyme</i> , BIOCHIMICA ET BIOPHYSICA ACTA, pp. 1-8 (2001).	Genencor/EDC	Exh. Y to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE591	F. H. Arnold, <i>Engineering proteins for nonnatural environments</i> , FASEB, pp. 744 -749 (1993).	Genencor/EDC	Exh. AA to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE592	F. H. Arnold, <i>Enzyme engineering reaches the boiling point</i> , PROCEEDINGS OF NATIONAL ACADEMY OF SCIENCE, Vol. 95, pp. 2035-2036 (1998).	Genencor/EDC	Exh. AB to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE593	T. J. Ahern <i>et al.</i> , <i>The Mechanisms of Irreversible Enzyme Inactivation at 100 degrees</i> , SCIENCE, Vol. 228, pp. 1280 - 1284 (1985).	Genencor/EDC	Exh. AE to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE594	M. Matsumura <i>et al.</i> , <i>Stabilization of phage T4 lysozyme by engineered disulfide bonds</i> , PROCEEDINGS OF NATIONAL ACADEMY OF SCIENCE, Vol. 86, pp. 6562-6566 (1989).	Genencor/EDC	Exh. AF to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE595	T. Zhang <i>et al.</i> , <i>Entropic effects of disulphide bonds on protein stability</i> , STRUCTURAL BIOLOGY, Vol. 1, No. 7, pp. 434 - 438 (1994).	Genencor/EDC	Exh. AG to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE596	A. Pakula <i>et al.</i> , <i>Reverse hydrophobic effects relieved by amino-acid substitutions at a protein surface</i> , NATURE, Vol. 344, pp. 363 - 364 (1990).	Genencor/EDC	Exh. AH to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE597	A. Pakula <i>et al.</i> , <i>Amino Acid Substitutions that Increases the Thermal Stability of the lambda Cro Protein</i> , PROTEINS: STRUCTURE, FUNCTION, AND GENETICS, pp. 202 - 210 (1989).	Genencor/EDC	Exh. AI to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE598	B.W. Matthews <i>et al.</i> , <i>Enhanced protein thermostability from site-directed mutations that decrease the entropy of unfolding</i> , PROCEEDING OF THE NATIONAL ACADEMY OF SCIENCE, Vol. 84, pp. 6663 - 6667 (1987).	Genencor/EDC	Exh. AJ to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE599	M. Blaber, <i>Determination of alpha-Helix Propensity within the Context of a Folded Protein - Sites 44 and 131 in Bacteriophage T4 Lysozyme</i> , JOURNAL OF MOLECULAR BIOLOGY, pp. 600 - 624 (1994).	Genencor/EDC	Exh. AK to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE600	M. Blaber <i>et al.</i> , <i>Structural Basis of Amino Acid a Helix Propensity</i> , SCIENCE, Vol. 260, pp. 1637 - 1640 (1993).	Genencor/EDC	Exh. AL to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE601	N. Declerck, <i>et al.</i> , <i>Hyperthermostable mutants of Bacillus licheniformis alpha-amylase: thermodynamic studies and structural interpretation</i> , PROTEIN ENGINEERING, Vol. 10, No. 5, pp. 541-548 (1997).	Genencor/EDC	Exh. AP to the Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE602	Curriculum Vitae of Mischa Christian Machius	Genencor/EDC	Exh. A to the Machius Expert Report		Stipulated
TE603	Figure 2, showing the superposition of domain B of BLA in the absence of calcium and presence of calcium	Genencor/EDC	Exh. E to the Machius Expert Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE604	M. P. Brosnan <i>et al.</i> , <i>Investigation of the mechanisms of irreversible thermoinactivation of Bacillus stearothermophilus alpha-amylase</i> , EUROPEAN JOURNAL OF BIOCHEM, Vol. 2003, pp. 225-231 (1992).	Genencor/EDC	Exh. F to the Machius Expert Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE605	P.J. Brumm <i>et al.</i> , <i>Purification and Properties of a New, Commercial, Thermostable Bacillus stearothermophilus alpha-Amylase</i> , FOOD BIOTECHNOLOGY, pp. 67-80 (1988).	Genencor/EDC	Exh. G. to the Machius Expert Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE606	N. Declerck <i>et al.</i> , <i>Hyperthermostable mutants of Bacillus licheniformis alpha-amylase: multiple amino acid replacement and molecular modelling</i> , PROTEIN ENGINEERING, Vol. 8, No. 10, pp. 1029-1037 (1995).	Genencor/EDC	Exh. I to the Machius Expert Report		Stipulated
TE607	A. Kulipulos <i>et al.</i> , <i>Localization of the Affinity Peptide-Substrate Inactivation Site on Recombinant Vitamin K-dependent Carboxylase</i> , JOURNAL OF BIOLOGICAL CHEMISTRY, Vol. 269, No. 33, pp. 21364 - 21370 (1994).	Genencor/EDC	Exh. L to the Machius Expert Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE608	V. V. Mozhaev, <i>Mechanism-based strategies for protein thermostabilization</i> , TRENDS BIOTECHNOLOGY, pp. 88-95 (1993).	Genencor/EDC	Exh. O to the Machius Expert Report; Exh. J to the Klivanov Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE609	M. W. Pantoliano <i>et al.</i> , <i>Large Increases in General Stability for Subtilism BPN' through Incremental Changes in the Free Energy of Unfolding</i> , BIOCHEMISTRY, pp. 7205 - 7213 (1989).	Genencor/EDC	Exh. P to the Machius Expert Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE610	L. Serrano <i>et al.</i> , <i>The Folding of an Enzyme: Structure of the Transition State for Unfolding of Barnase Analysed by a Protein Engineering Procedure</i> , JOURNAL OF BIOLOGY, pp. 805 - 818 (1992).	Genencor/EDC	Exh. R to the Machius Expert Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE611	Bisgard-Frantzen <i>et al.</i> , U.S. Patent No. 6,297,038 B1, entitled “Amylase Variants,” (2001)	Genencor/EDC	Exh. T to the Machius Expert Report; Exh. F to the Klibanov Report; Exh. 9 to the Davies Rebuttal		Stipulated
TE612	M. Vihinen <i>et al.</i> , <i>Characterization of a Thermostable Bacillus stearothermophilus alpha-amylase</i> , BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, pp. 427 - 435 (1990).	Genencor/EDC	Exh. W to the Machius Expert Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE613	G. Vriend <i>et al.</i> , <i>Stabilization of the neutral protease of Bacillus stearothermophilus by removal of a buried water molecule</i> , PROTEIN ENGINEERING, Col. 4, No. 8, pp. 941 - 945 (1991).	Genencor/EDC	Exh. X to the Machius Expert Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE614	Q. Xu <i>et al.</i> , <i>Identification of Surface-Exposed Domains on the Reducing Side of Photosystem</i> , PLANT PHYSIOLOGY, pp. 617 - 624 (1994).	Genencor/EDC	Exh. Y to the Machius Expert Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE615	Curriculum Vitae of Alexander M. Klibanov	Genencor/EDC	Exh. A to the Klibanov Report		Stipulated
TE616	Chapter 18 of a textbook entitled, “Analysis of Messy Data,” G. Milliken and D. Johnson, Chapman & Hall/CRC, 2002)	Genencor/EDC	Exh. D to the Klibanov Report		Objection: FRE 801-802 (Hearsay)

Exhibit	Description	Offered By	Source	Production No.	Objection
TE617	U.S. Federal Policy on Research Misconduct	Genencor/EDC	Exh. E to the Klibanov Report		Objection: FRE 801-802 (Hearsay)
TE618	Linear regression plots for the experimental data set in the Borchert Declaration (Exh. 1 to 19)	Genencor/EDC	Exh. I to the Klibanov Report		Stipulated
TE619	Curriculum Vitae of Thomas C. Alber	Genencor/EDC	Exh. 1 to the Second Alber Report		Stipulated
TE620	T. Alber <i>et al.</i> , <i>Contributions of hydrogen bonds of Thr 157 to the thermodynamic stability of phage T4 lysozyme</i> , NATURE, Vol. 330, pp. 41 - 46 (1987).	Genencor/EDC	Exh. 2 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE621	T. Alber, <i>Mutation Effect on Protein Stability</i> , ANNUAL REVIEW BIOCHEM, Vol. 58, pp. 765 - 798 (1989).	Genencor/EDC	Exh. 4 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE622	P. Harbury <i>et al.</i> , <i>High-Resolution Protein Design with Backbone Freedom</i> , SCIENCE, Vol. 282, pp. 1462 - 1467 (1998).	Genencor/EDC	Exh. 6 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE623	S. Crowder <i>et al.</i> , <i>Covariance Analysis of RNA Recognition Motifs Identifies Functionally Linked Amino Acids</i> , JOURNAL OF MOLECULAR BIOLOGY, Vol. 310, pp. 793 - 800 (2001).	Genencor/EDC	Exh. 7 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE624	J. Holton, T. Alber, <i>Automated protein crystal structure determination using ELVES</i> , PNAS, Vol. 101, No. 6, pp. 1537 - 1542 (2004).	Genencor/EDC	Exh. 8 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE625	G997 Alpha-Amylase Amino Acid Sequence	Genencor/EDC	Exh. 11 to the Second Alber Report		Objection: FRE 801-802 (Hearsay)
TE626	Amino Acid Sequence of SEQ ID No:3	Genencor/EDC	Exh. 12 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE627	The Amino Acid Sequence of Seq 3 from Figure 1 in '031 patent	Genencor/EDC	Exh. 13 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE628	H. Ihara <i>et al.</i> , <i>Complete Nucleotide Sequence of a Thermophilic alpha-amylase Gene: Homology between Prokaryotic and Eukaryotic alpha-Amylases at the Active Sites</i> , JOURNAL OF BIOCHEM, Vol. 98, No. 1, pp. 95 - 103 (1985).	Genencor/EDC	Exh. 14 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE629	G. Gray <i>et al.</i> , <i>Structural Genes Encoding the Thermophilic alpha-Amylase of Bacillus stearothermophilus and Bacillus licheniformis</i> , JOURNAL OF BACTERIOLOGY, Vol. 166, No. 2, pp. 635 - 643 (1986).	Genencor/EDC	Exh. 16 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE630	I. Suominen <i>et al.</i> , <i>Thermostable Alpha Amylase of Bacillus Stearothermophilus: Cloning, Expression, and Secretion by Escherichia Coli</i> , Extracellular Enzymes of Microorganisms, J. Chaloupka and V. Krumphanzl, eds., pp. 129-137 (1987).	Genencor/EDC	Exh. 17 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE631	G. Manning <i>et al.</i> , <i>Thermostable alpha - Amylase of Bacillus stearothermophilus - Physical Properties and Molecular Weight</i> , JOURNAL OF BIOLOGICAL CHEMISTRY, Vol. 236, No. 11, pp. 2958 - 2961 (1961).	Genencor/EDC	Exh. 19 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE632	S. Pfueller, W. H. Elliott, <i>The Extracellular alpha-Amylase of Bacillus stearothermophilus</i> , JOURNAL OF BIOLOGICAL CHEMISTRY, Vol. 244, No. 1, pp.48 - 54 (1969).	Genencor/EDC	Exh. 20 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE633	N. Tsukagoshi <i>et al.</i> , <i>Cloning and Expression of a Thermophilic alpha-amylase Gene from Bacillus stearothermophilus in Escherichia coli</i> , MOL. GEN. GENET., 193:58-63 (1984)	Genencor/EDC	Exh. 21 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE634	N. Tsukagoshi <i>et al.</i> , <i>Efficient Synthesis and Secretion of a Thermophilic alpha-Amylase by Protein-Producing Bacillus brevis 47 Carrying the Bacillus stearothermophilus Amylase Gene</i> , JOURNAL OF BACTERIOLOGY, Vol. 164, No. 3, pp. 1182-1187 (1985).	Genencor/EDC	Exh. 22 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE635	A. Egelseer <i>et al.</i> , <i>The S-Layer from Bacillus stearothermophilus DSM 2358 Function as an Adhesion Site for a High-Molecular-Weight Amylase</i> , JOURNAL OF BACTERIOLOGY, Vol. 177, No. 6, pp. 1444 - 1451 (1995).	Genencor/EDC	Exh. 23 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE636	C-Terminal truncation of a Bacillus stearothermophilus alpha-amylase wildtype and variants expressed in Bacillus subtilis and Bacillus licheniformis	Genencor/EDC	Exh. 25 to the Second Alber Report	NV-0003976 - NV-0003979	Stipulated
TE637	ATCC 31,195 alpha-Amylase Variant Sequence	Genencor/EDC	Exh. 26 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE638	Nucleases - Nuclease BAL 31, Enzymes Used in Molecular Cloning, pp. 5.73 - 5.80	Genencor/EDC	Exh. 47 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE639	GAP (GCG) Alignment: SEQ ID NO: 3 to Spezyme Ethyl	Genencor/EDC	Exh. 51 to the Second Alber Report; Exh. 4 to the Alber Declaration (APP 172-173)		Stipulated
TE640	GAP (GCG) Alignment: N-terminal 20 amino acid of SEQ ID NO:3 to SEQ ID NO:3	Genencor/EDC	Exh. 52 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE641	Hypothetical alpha-amylase	Genencor/EDC	Exh. 53 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE642	GAP (GCG) Alignment: SEQ ID NO.: 3 to Hypothetical alpha-amylase	Genencor/EDC	Exh. 54 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE643	ftp.virginia.edu/pub/fasta/tmp/fasta16c32.sahr.Z	Genencor/EDC	Exh. 55 to the Second Alber Report		Objection: FRE 801-802 (Hearsay)
TE644	ALIGN Alignment SEQ ID NO.: 3 to Spezyme Ethyl	Genencor/EDC	Exh. 57 to the Second Alber Report; Exh. 6 to the Alber Declaration (APP. 177-178)		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE645	GAP (Huang) Source Code File gap.c - available at ftp://cs.mtu.edu/pub/huang/	Genencor/EDC	Exh. 58 to the Second Alber Report		Stipulated
TE646	GAP (Huang) Alignment: SEQ ID NO.: 3 to Spezyme Ethyl	Genencor/EDC	Exh. 60 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE647	ALIGN Alignment Spezyme Ethyl to G997	Genencor/EDC	Exh. 62 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE648	GAP (Huang) Alignment: Spezyme ethyl to G997	Genencor/EDC	Exh. 63 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.

Exhibit	Description	Offered By	Source	Production No.	Objection
TE649	GAP (GCG) Alignment: Spezyme ethyl to Seq 3 of Figure 1 from '031 Patent	Genencor/EDC	Exh. 64 to the Second Alber Report		Stipulated
TE650	ALIGN Alignment: Spezyme ethyl to Seq 3 of Figure 1 from '031 Patent	Genencor/EDC	Exh. 65 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE651	GAP (Huang) Alignment: Spezyme ethyl to Seq 3 of Figure 1 from '031 Patent	Genencor/EDC	Exh. 66 to the Second Alber Report		Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE652	Excerpts of U.S. Patent No. 6,867,031 File History	Genencor/EDC	Exh. B to Defendant's Opposition (APP. 40-130)		Stipulated
TE653	Email dated November 14, 2004 from C. Shapiro to J. Garbell re: Wyoming Ethanol - Phone Call - 11//11/2004	Genencor/EDC	Exh. 24 to the Teece Declaration (APP. 2253 - 2254)	NV-0004573 - NV-0004574	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay)
TE654	Email string dated April 27, 2005 from P. Skagerlind to J. Garbell re Stability of 2aa deletion	Genencor/EDC	Exh. Q to Defendant's Opposition (APP. 2269-2271)	NV-0004048 - NV-0004050	Stipulated
TE655	Document titled, Spezyme Ethyl Status, dated August 13, 2004	Genencor/EDC	Exh. R to Defendant's Opposition (APP. 2272)	NV-0081594	Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE656	Email dated June 29, 2004 from T. Borchert to A. Viksnilsen, H. Bisgard-Frantzen re Got Spezyme Ethyl sample in China	Genencor/EDC	Exh. T to Defendant's Opposition (APP. 2290-2292)	NV-0105106 - NV-0105108	Stipulated
TE657	Email dated July 23, 2004 from J. Cherry to C. Fuglsang et al., re spezyme ethyl characterization work	Genencor/EDC	Exh. U to Defendant's Opposition (APP. 2293)	NV-0105470	Stipulated
TE658	Email dated August 17, 2004 from C. Sonksen to J. Cherry re Spezyme Ethyl Status - 9th August 04.ppt	Genencor/EDC	Exh. V to Defendant's Opposition (APP. 2294-2295)	NV-0104995 - NV-0104996	Stipulated
TE659	Photographs of Borchert's technician's notebook pages	Genencor/EDC	(Excerpts used as Holbo Deposition Exh. 121)	NV-0028120 - NV-0028150	Stipulated
TE660	Gray, U.S. Patent No. 5,093,257, entitled "Hybrid Prokaryotic Polypeptides by in vivo Homologous Recombination," (1992)	Genencor/EDC			Stipulated
TE661	Plaintiff's Responses to Defendant's Interrogatories	Genencor/EDC			Stipulated
TE662	Plaintiff's Supplemental Responses to Defendants' Interrogatories	Genencor/EDC			Stipulated
TE663	Plaintiff's Second Supplemental Response to Defendants' Interrogatories	Genencor/EDC			Stipulated
TE664	Slides from Torben Borchert's 1996 presentation at the AOCS meeting in Indianapolis	Genencor/EDC		GCOR170278 - GCOR170291	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders
TE665	Amendment to Claims re application no: 08/683,838	Genencor/EDC		NV-0094695 - NV-0094720	Stipulated

Exhibit	Description	Offered By	Source	Production No.	Objection
TE666	Collection of pages printed from Genbank website for the following Accession Numbers: AAB86961, A24549, AAU10478, AAA22235, 1713273A, 1107236A, ABC18196, CAA26547, CAB93517, and AAA22227.	Genencor/EDC			Objection: FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders
TE667	GAP (GCG) Alignment: Spezyme Ethyl to the 515-amino Acid G997 Alpha Amylase	Genencor/EDC	Exh. 61 to the Second Alber Report	GCOR170292 - GCOR170302	Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence and FRCP 26/Court's Scheduling Order
TE668	Spreadsheet entitled, "Heat Treatment of BAN and BSG at 80 Degrees"	Genencor/EDC	Holbo Deposition Exh. 122	NV-200266	Stipulated
TE669	Excerpt from Novozymes' Laboratory Notebook No. 13704 entitled, "Determination of half life for BAN-WT," pp. 070-072.	Genencor/EDC	Tams Deposition Exh. 113	NV-200203 - NV-200205	Stipulated
TE670	Email dated April 26, 2004 from D. Duhart to M. Mueller et al., re Wyoming Ethanol - Phone Call-4/23/2004	Genencor/EDC	Garbell Deposition Exh. 61	NV-0171314 - NV-0171317	Objection: FRE 401-403 (Relevance) FRCP 26/Court's Scheduling Orders
TE671	Email dated June 18, 2004 from J. Faller to NZNA DL Fuel Family, J. Garbell et al. re DENCO call report 6/9/2004 Sample of Spezyme Ethyl.	Genencor/EDC	Garbell Deposition Exh. 62	NV-0171311	Objection: FRE 401-403 (Relevance) FRE 801-802 (Hearsay) FRCP 26/Court's Scheduling Orders

Exhibit	Description	Offered By	Source	Production No.	Objection
TE672	Email dated July 1, 2004 from P. Zhou to C. Veit et al. re Attorney Client Privileged and confidential GCI Alpha Amylase	Genencor/EDC	Garbell Deposition Exh. 63	NV-0070594 - NV-0070595	Objection: FRE 401-403 (Relevance) FRCP 26/Court's Scheduling Orders
TE673	Excerpts from Borchert's Deposition Exhibit 50.	Genencor/EDC	Borchert Deposition Exh. 311	NV-0174639; NV-0174656- NV-0174655	Stipulated
TE674	Email dated August 25, 2004 from T. Borchert to J. Garbell et al. re Spezyme Ethyl- great results	Genencor/EDC	Borchert Deposition Exh. 312	NV-200032 - NV-200039	Stipulated
TE675	Document entitled, "4318 patent protection variants"	Genencor/EDC	Borchert Deposition Exh. 313	NV-200042	Stipulate to use as a demonstrative. Reserve right to object under FRE 801-802 (Hearsay) if offered as evidence.
TE676	Email dated August 12, 2004 from T. Borchert to J. Tabarovsky et al. re Additional Draft Motions	Genencor/EDC	Borchert Deposition Exh. 314	NV-200018 - NV-200019	Stipulated
TE677	Notice of Allowance from U.S. Application No. 09/902,188	Genencor/EDC			Stipulated